

**Amendments to the Claims:**

The listing of claims replaces all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1.-3. (Cancelled)

4. (Currently Amended) A system for measuring a characteristic of a filter in a DUT employing an analog filter, said system comprising:

a digital channel for providing an impulse signal without applying a sine wave to the analog filter of the DUT;

a digitizer for receiving an output signal of the analog filter in response to the impulse signal so as to measure the characteristic of the filter; and

a controller for controlling the digital channel and the digitizer,

wherein the digitizer comprises:

an anti-aliasing filter for antialiasing-filtering an output of the filter;

an analog to digital (A/D) converter for converting a filter output  
outputted from the anti-aliasing filter into digital data;

a memory for capturing the digital data outputted from the A/D converter  
at a determined storage region;

a digital signal processor (DSP) for processing in signal the digital data  
captured at the memory; and

a digital filter for receiving a process signal outputted from the DSP and  
digitally filtering the process signal.

5.-6. (Cancelled)